

### MDA STEM Outreach Program Review

**Tennessee Valley BEST Robotics** 

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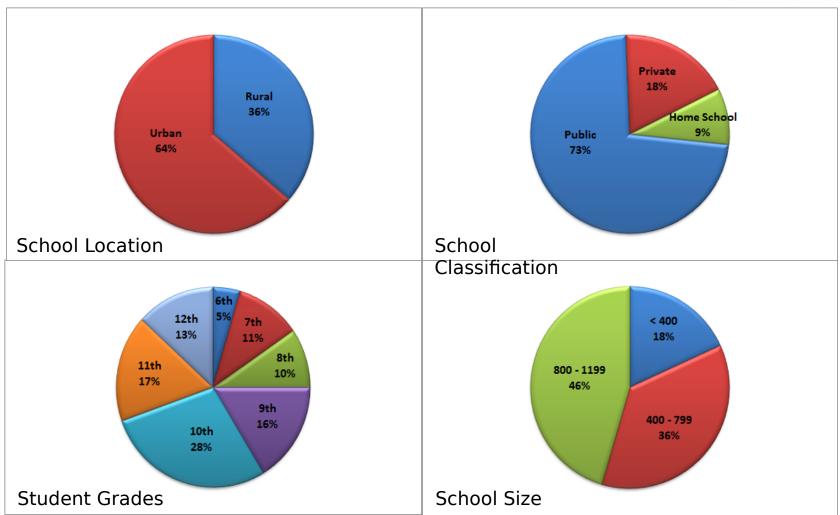
# **Tennessee Valley BEST History**



Year	Event
2003	Hub started by a small group of volunteers working in the Huntsville area at various engineering based companies; many are Auburn Engineering graduates
2007	TVB became a program of Calhoun Community College in partnership with the K-12 Outreach offices of Auburn University's Ginn College of Engineering (CoE) and College of Sciences and Mathematics (CoSAM)
2009	Calhoun Community College selected to become the site of the State of Alabama's much heralded Robotics Center, which will serve as a training facility for industries in North Alabama
2010	TVB grew to 20 teams, serving 405 students (264 male and 141 female)

### **Team Demographics**

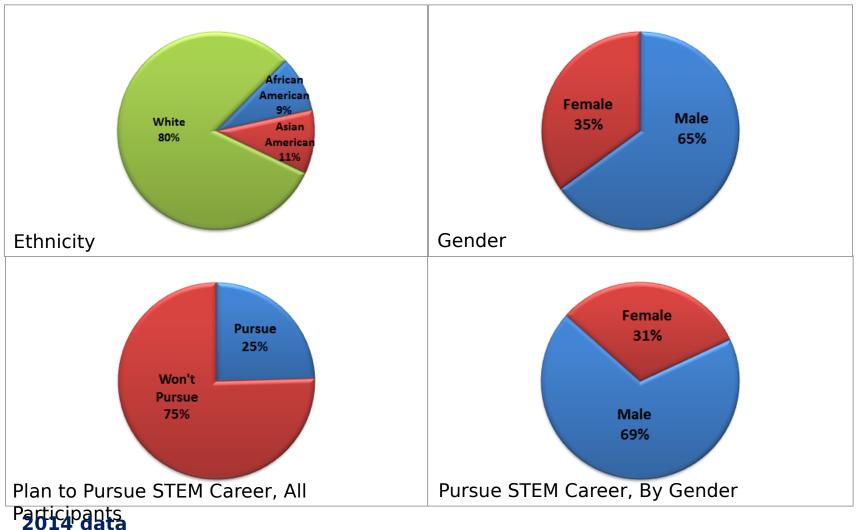




2014 data

### **Team Demographics**





## Tennessee Valley Hub Events



- TVB Annual Events
  - Summer Robotics Camps
  - Kick-Off
  - Mall day
  - Game Day
- Summer Robotics Camp June 15th 18th, 2015
  - Focus: introduce robotics concepts and have fun using science, technology, engineering, and mathematics

 18 participants (Male-Hispanic-2, Male-White-7, Male-Native American-1, Male Black-3 Female-White-0, Female-Black-5

Kick-Off September 19th, 2015

Kelley Gym, Calhoun Community College, Decatur Campus

Mall Day October 18th, 2015

Madison Square Mall, Huntsville, Alabama

• Game Day October 31st, 2015

Kelley Gym, Calhoun Community College, Ded Campus



#### Tennessee Valley Hub Impact and Outcomes



- TVB factors into the efforts of the Robotics Center as an ideal K-12 workforce development "pipeline" program.
- Through participation in the BEST program, students develop the ability to work in teams, serve in leadership roles, think analytically, and apply technology in solving complex industrial design problems.
- Such skills are critical to Alabama's industries and the development of BEST students' technological literacy skills will make them prized industry employees
- Since our start in 2003, TVB has impacted approximately 5,000 students with the support of nearly 1,200 volunteers from business and industry.

## Tennessee Valley Hub Community Support



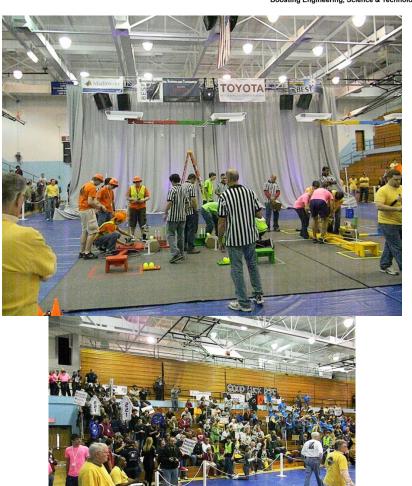
- Decatur Chamber of Commerce
  - Mandy Price Business and Industrial, Mentoring and Volunteering Support
- Rotary Club of Decatur Daybreak
  - Sue Mitchell and Ronnie Smallwood Organizational, Volunteer, and Financial Support
- Tennessee Valley Authority
  - Kristine Cooper Financial Support
- Institute of Electrical and Electronics Engineers (IEEE)
  - Willie Fitzpatrick and Jim Covington Technical and Compliance Support
- Toyota Motor Manufacturing Alabama
  - Wes Woods Organizational, Mentoring Volunte
- Calhoun Community College
  - Mark Rose and Brian Gann Hub Directors
  - Bethany Clem-Schockney,
- Alabama Robotics Technology Park
  - Lisa Stockton Volunteer Support
- Friends of BEST in Alabama
  - Robin Fenton Organization and Financial Opp
- Auburn University
  - Mary Lou Ewald Educational, Organizational



#### TV BEST "A" Team



Hub Role	Person
Volunteer and Mentor recruiting	Wes Woods
Head Referee	Ed Green
Fundraising	Ronnie Smallwood
Hub Director Asst. Hub Director	Mark Rose Brian Gann
Consumable Kits Lead	Ronnie Smallwood
Returnable Kits Leads	Willie Fitzpatrick Jim Covington
Awards and Judging Leads	Lanny Upton, Allen Wooten
Business Support / Donations	Mandy Price
Game Field Lead	Mark Spengler





#### **SUPPORT INFORMATION**

## **TV BEST Key Volunteers**



Hub Role	Person
Hub Director	Mark Rose
Co-Director / Assistant	Brian Gann
Game Field Build	Mark Spengler
Financial / Materials and Other Purchases	Mark Rose
Consumable Kits	Ronnie Smallwood
Returnable Kits and Compliance	Willie Fitzpatrick, Jim Covington
Awards and Judging	Brian Gann, Lanny Upton, Allen Wooten
Hospitality	Kellie Morris. Rhonda Kelley
Pit Crew	Bud Shaulis
Game Scoring	John Lane, Tyler Johnson
Sound and Lighting (Game Day)	Stephen Mitchell
Game Day Emcee	Wes Woods
Head Referee	Ed Green